



## Gulf of Mexico Harmful Algal Bloom Bulletin

2 November 2006

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: October 30, 2006

### Conditions Report

A harmful algal bloom has been identified from Pinellas to central Collier County. Patchy low impacts are possible for Pinellas, Sarasota, and northern Charlotte Counties today through Sunday. Patchy very low impacts are possible for Pinellas, Manatee, Lee, southern Charlotte, and Collier Counties today through Sunday.

### Analysis

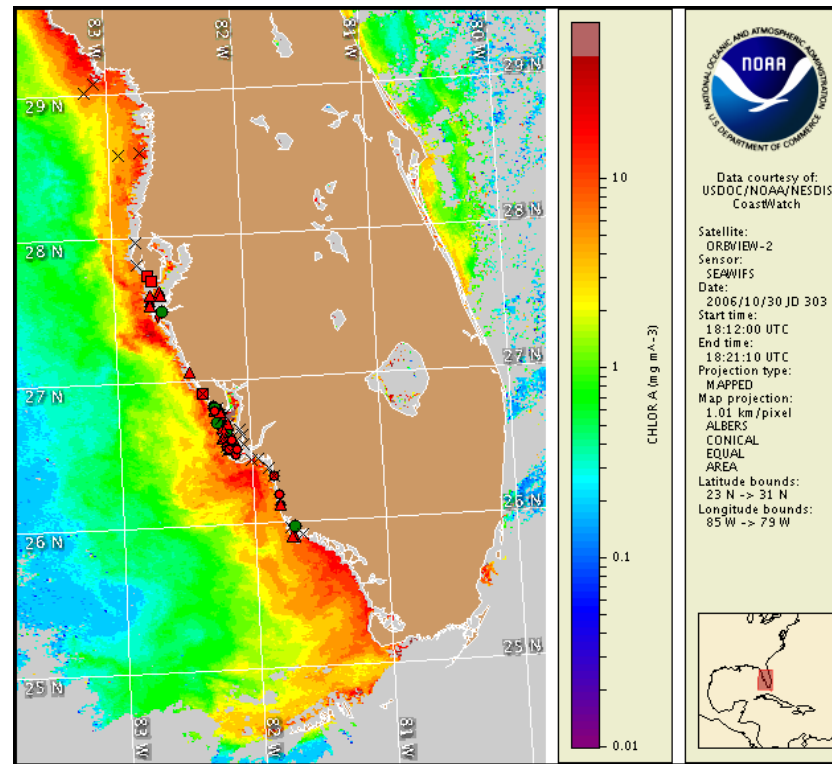
The harmful algal bloom persists in patches from Pinellas to Collier County. High concentrations of *K. brevis* were reported this week at Corey Causeway and at the West End of Pinellas Bayway (FWRI; 10/30) in Pinellas County. Concentrations have increased from low to medium around northern Pine Island and Gasparilla Sound (FWRI; 10/30). Concentrations remain high for Pinellas, northern Charlotte, and Sarasota County, with low to medium concentrations present in Manatee, southern Charlotte, Lee, and Collier Counties. Imagery from 10/31 continues to indicate high patches of chlorophyll ( $>20\mu\text{g/L}$ ) offshore of Sarasota and Manatee Counties, with a central location of  $27^{\circ}25'48''\text{N}$ ,  $82^{\circ}48'35''\text{W}$  and offshore of southern Pinellas County ( $>20\mu\text{g/L}$ ) with a central location of  $27^{\circ}42'26''\text{N}$ ,  $82^{\circ}54'31''\text{W}$ . Continued sampling is recommended. Due to technical difficulties, the imagery shown is dated 10/30.

Dead fish were reported around Sanibel Island in Lee County this past week. Northerly and northeasterly winds throughout the weekend will minimize impacts along the coast. Continued southerly transport and intensification is expected.

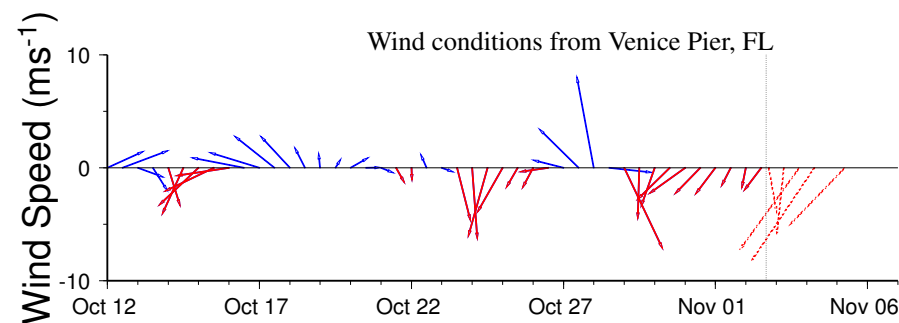
~ Keller, Fisher

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.

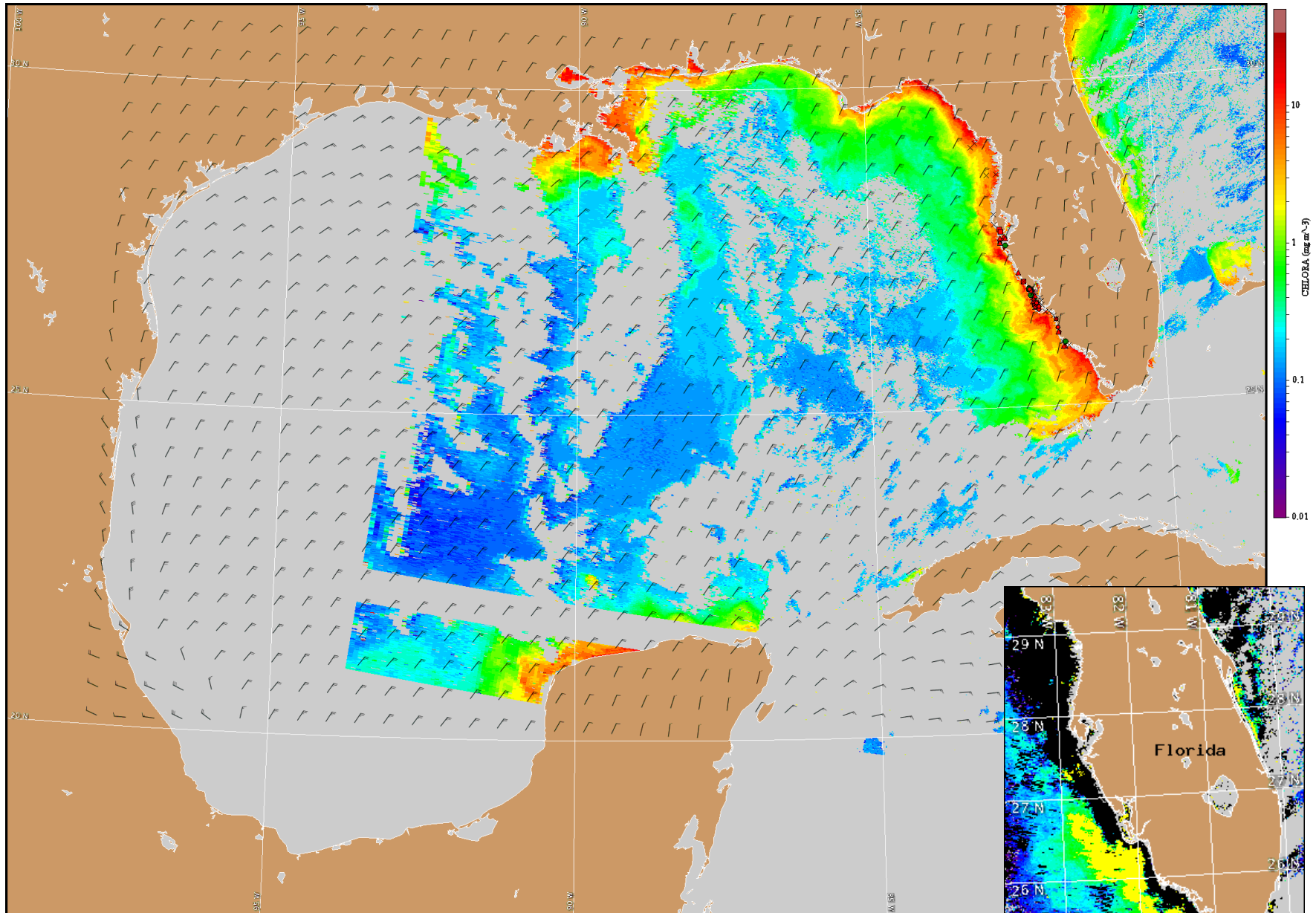


Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration categories and corresponding cell count values from Florida Fish and Wildlife Research Institute. For a key to the cell concentration descriptions, visit <http://research.myfwc.com>. Cell concentration sampling data from October 23-November 1 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

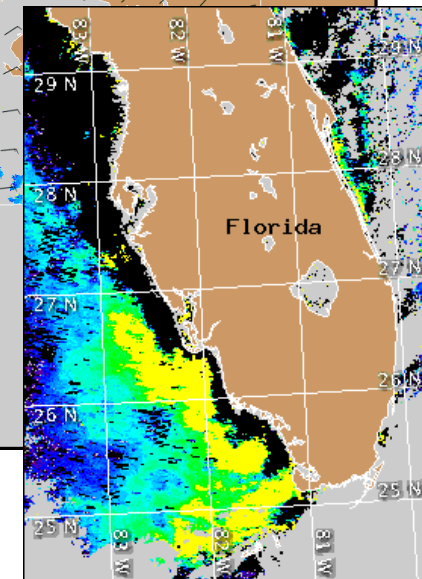


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Northerly winds today at 10 knots (5 m/s), strengthening this evening to 15 knots (8 m/s). Northeasterly winds today through Sunday at 15-20 knots (8-10 m/s). Easterly winds on Monday at 20 knots (10 m/s).

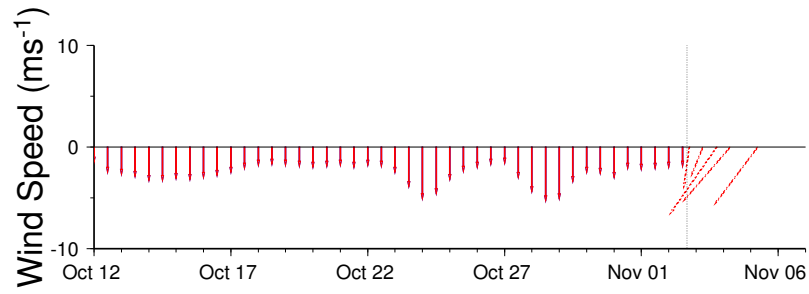


Satellite chlorophyll image and forecast winds for November 3, 2006 12Z with cell concentration sampling data from October 23-November 1 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).

Wind conditions from Naples, FL



Wind conditions from Clearwater Beach, FL

